AUTODOC CLUB

# How to change engine oil and filter on **MERCEDES-BENZ Vito Van (W638)** – replacement guide

## SIMILAR VIDEO TUTORIAL




This video shows the replacement procedure of a similar car part on another vehicle

**Important!**

This replacement procedure can be used for:
MERCEDES-BENZ Vito Van (W638) 108 CDI 2.2 (638.094), MERCEDES-BENZ Vito Van (W638) 110 CDI 2.2 (638.094), MERCEDES-BENZ Vito Van (W638) 112 CDI 2.2 (638.094)

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The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ Vito Minibus (W638) 112 CDI 2.2 (638.194)

## REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES-BENZ VITO VAN (W638). TOOLS YOU MIGHT NEED:




- All-purpose cleaning spray
- Oil filter cup socket 76-14F
- Drive socket # 13
- Combination spanner #13
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Funnel
- Oil drain pan
- Microfibre towel
- Fender cover

Buy tools

AUTODOC recommends:

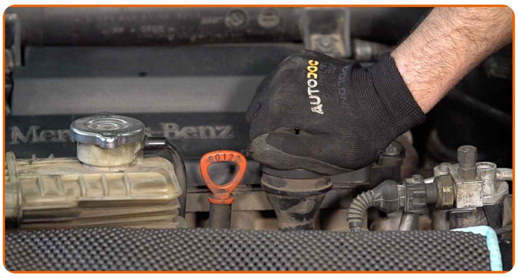
- Replace the oil filter every time when changing motor oil.
- Warning! Shut down the engine before starting any work – MERCEDES-BENZ Vito Van (W638).
- Wear gloves to prevent contact with hot liquid.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.

2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3 Unscrew the oil filler plug.



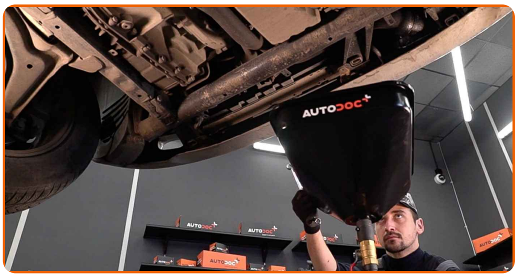
4 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.

5 Lift the car using a jack or place it over an inspection pit.

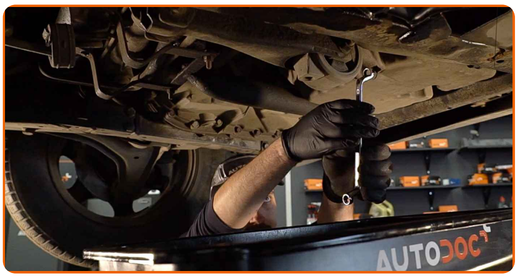
Replacement: engine oil and filter – MERCEDES-BENZ Vito Van (W638). Tip from AUTODOC:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

**6** Put a waste oil container with at least 8 l capacity under the drainage hole.




**7** Unscrew the drain plug. Use a combination spanner #13.




**8** Drain the used oil.



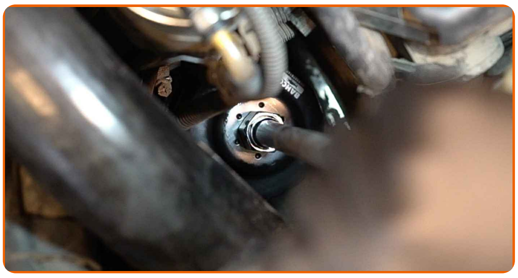
**Replacement: engine oil and filter – MERCEDES-BENZ Vito Van (W638). Tip from AUTODOC experts:**

- Caution! The oil may be hot.

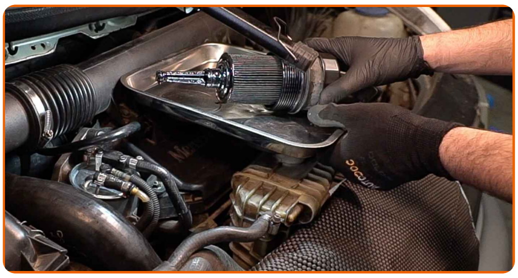
**9** Clean the oil filter housing cap. Use all-purpose cleaning spray.



**10** Unscrew the oil filter. Use the 76-14F socket. Use a ratchet wrench.



**11** Remove the oil filter. Put the old oil filter in the container.



## Replacement: engine oil and filter – MERCEDES-BENZ Vito Van (W638). Tip:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

**12** Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.

**13** Detach the oil filter from the filter cover.



14

Remove old o-rings from the oil filter cover. Use a flat screwdriver.



15

Clean the oil filter housing cap. Use all-purpose cleaning spray.



16

Install new O-rings and a new oil filter to their mounting seats on the filter cover.



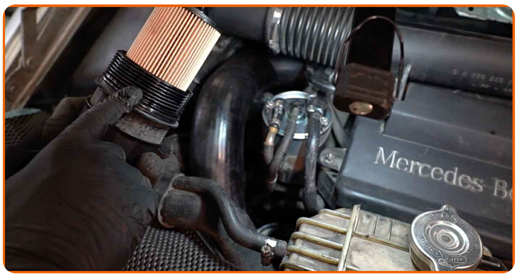
Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.

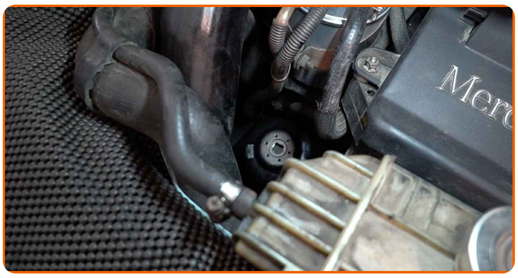
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Remove the microfibre towel from the oil filter housing.

**18** Lubricate the rubber seal of the new filter with a little amount of fresh oil.




**19** Screw the new filter into its place.



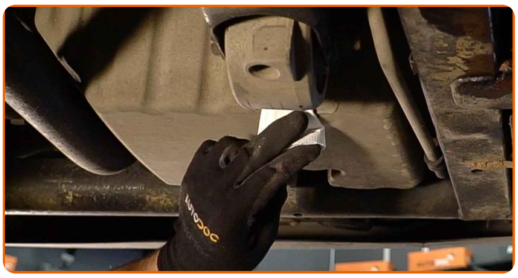
**20** Screw the cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.



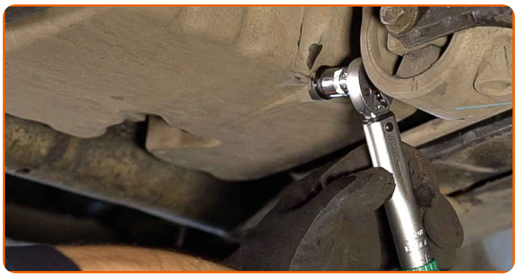

## AUTODOC recommends:

- Wait until the oil has completely drained from the drainage hole.

**21** Clean the area of the oil pan drainage hole.



**22** Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



**23** Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



**24** Lower the car.

**25** Remove the oil filler cap. Insert the funnel.




**26** Pour new oil into the engine in the amount recommended by the car manufacturer.



## AUTODOC recommends:

- Use the oil recommended by the manufacturer.

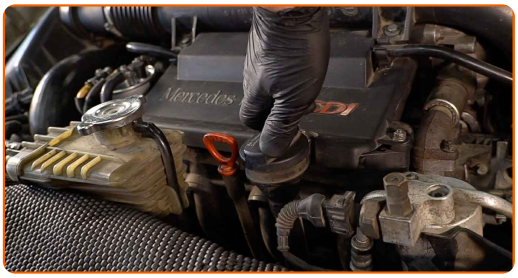
**27** Check the oil level using the dipstick. Top up oil if necessary.



## Please note!

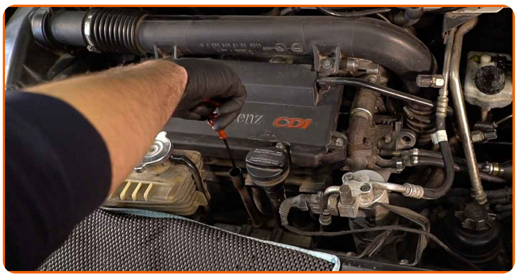
- The oil level should be between the Min and Max marks.

**28** Tighten the oil filler cap.



**29** Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.

**30** Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



## Replacement: engine oil and filter – MERCEDES-BENZ Vito Van (W638). AUTODOC experts recommend:

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

**31** Remove the fender protection cover.

**32** Close the hood.

## Replacement: engine oil and filter – MERCEDES-BENZ Vito Van (W638). Tip:

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

**WELL DONE!**

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